

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
25 July 2002 (25.07.2002)

PCT

(10) International Publication Number  
**WO 02/057450 A2**

(51) International Patent Classification<sup>7</sup>: **C12N 15/12**,  
C07K 14/47, 16/18, C12N 15/11, G01N 33/68, 33/574,  
C12Q 1/68, A61K 31/713, 39/395, 38/17, 31/7088, A61P  
9/10, 35/00, 3/10, A01K 67/027

(21) International Application Number: PCT/US01/48922

(22) International Filing Date:  
29 November 2001 (29.11.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/253,834 29 November 2000 (29.11.2000) US  
60/250,926 30 November 2000 (30.11.2000) US  
60/264,180 25 January 2001 (25.01.2001) US  
60/313,656 20 August 2001 (20.08.2001) US  
60/327,456 5 October 2001 (05.10.2001) US  
Not furnished 28 November 2001 (28.11.2001) US

(63) Related by continuation (CON) or continuation-in-part  
(CIP) to earlier application:  
US Not furnished (CIP)  
Filed on 28 November 2001 (28.11.2001)

(71) Applicant (for all designated States except US): **CURA-  
GEN CORPORATION** [US/US]; 555 Long Wharf Drive,  
11th floor, New Haven, CT 06511 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **EDINGER, Shlomit**  
[US/US]; 766 Edgewood Avenue, New Haven, CT 06515  
(US). **MACDOUGALL, John, R.** [CA/US]; 117 Russell  
Street, Hamden, CT 06515 (US). **MILLET, Isabelle**  
[FR/US]; 74 Carrington Avenue, Milford, CT 06460 (US).  
**ELLERMAN, Karen** [US/US]; 87 Montoya Drive, Bran-  
ford, CT 06405 (US). **STONE, David, J.** [US/US]; 223  
Whitethorn Drive, Guilford, CT 06437 (US). **GERLACH,**  
**Valerie** [US/US]; 18 Rock Pasture Road, Branford, CT  
06405 (US). **GROSSE, William, M.** [US/US]; 15 Rice  
Terrace Road, Apartment C, Branford, CT 06405 (US).  
**ALSOBROOK, John, P., II** [US/US]; 60 Lake Drive,  
Madison, CT 06443 (US). **LEPLEY, Denise, M.** [US/US];  
51 Church Street, Branford, CT 06405 (US). **RIEGER,**  
**Daniel** [US/US]; 555 Long Wharf Drive, 11th Floor,  
New Haven, CT 06405 (US). **BURGESS, Catherine, E.**

[US/US]; 90 Carriage Hill Drive, Weathersfield, CT 06109  
(US). **CASMAN, Stacie, J.** [US/US]; 17 Peck Street,  
North Haven, CT 06473 (US). **SPYTEK, Kimberly, A.**  
[US/US]; 28 Court Street #1, New Haven, CT 06511 (US).  
**BOLDOG, Ferenc, L.** [HU/US]; 1687 Hartford Turn-  
pike, North Haven, CT 06473 (US). **LI, Li** [CN/US]; 56  
Jerimoth Drive, Branford, CT 06405 (US). **PADIGARU,**  
**Muralindhara** [IN/US]; 71 Hampton Park, Branford, CT  
06405 (US). **MISHRA, Vishnu** [IN/US]; 3832 SW 93rd  
Terrace, Gainesville, FL 32608 (US). **PATTURAJAN,**  
**Meera** [IN/US]; 45 Harrison Avenue, Apartment 1C,  
Branford, CT 06405 (US). **SHENOY, Suresh** [IN/US]; 15  
Millwood Drive, Branford, CT 06405 (US). **RASTELLI,**  
**Luca** [IT/US]; 52 Pepperbush Lane, Guilford, CT 06437  
(US). **TCHERNEV, Velizar, T.** [BG/US]; 45 Jefferson  
Road, #3-12, Branford, CT 06405 (US). **VERNET,**  
**Corine, A., M.** [FR/US]; 1739 Foxon Road, Apartment  
16, North Branford, CT 06471 (US). **ZERHUSEN,**  
**Bryan, D.** [US/US]; 337 Monticello Drive, Branford, CT  
06405 (US). **MALYANKAR, Uriel, M.** [IN/US]; 229  
Branford Road, # 330, Branford, CT 06405 (US). **GUO,**  
**Xiyojia** [CN/US]; 713 Robert Frost Drive, Branford, CT  
06405 (US). **MILLER, Charles, E.** [US/US]; 98 Saddle  
Hill Drive, Guilford, CT 06437 (US). **GANGOLLI, Esha,**  
**A.** [IN/US]; 31 Strawberry Hill Road, Madison, CT 06443  
(US).

(74) Agent: **ELRIFI, Ivor, R.**; Mintz, Levin, Cohn, Ferris,  
Glovsky and Popeo, P.C., One Financial Center, Boston,  
MA 02111 (US).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,  
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,  
MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG,  
SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,  
YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR,  
GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent  
(BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,  
NE, SN, TD, TG).

[Continued on next page]

(54) Title: **PROTEINS AND NUCLEIC ACIDS ENCODING SAME**

(57) Abstract: Disclosed herein are nucleic acid sequences that encode novel polypeptides. Also disclosed are polypeptides encoded by these nucleic acid sequences, and antibodies, which immunospecifically-bind to the polypeptide, as well as derivatives, variants, mutants, or fragments of the aforementioned polypeptide, polynucleotide, or antibody. The invention further discloses therapeutic, diagnostic and research methods for diagnosis, treatment, and prevention of disorders involving any one of these novel human nucleic acids and proteins.

BEST AVAILABLE COPY

WO 02/057450 A2